

Product datasheet for **RG236068**

SLC39A4 (NM_001280557) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC39A4 (NM_001280557) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC39A4
Synonyms: AEZ; AWMS2; ZIP4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236068 representing NM_001280557.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATCACTCTGGGCGACGCCGTGCACAACTTCGCCGACGGGCTGGCCGTGGGCGCCGCCTTCGCGTCC
TCCTGGAAGACCGGGCTGGCCACCTCGCTGGCCGTGTTCTGCCACGAGTTGCCACACGAGCTGGGGGAC
TTCGCCGCTTGTGCACGCGGGGCTGTCCGTGCGCCAAGCACTGCTGCTGAACCTGGCCTCCGCGCTC
ACGGCCTTCGCTGGTCTCTACGTGGCACTCGCGGTTGGAGTCAGCGAGGAGAGCGAGGCCTGGATCCTG
GCAGTGGCCACCGCCTGTTCTCTACGTAGCACTCTGCGACATGCTCCCGCGGATGTTGAAAGTACGG
GACCCGCGGCCCTGGCTCCTTCTCTGTCACAACGTGGGCTGCTGGGCGGCTGGACCGTCTGCTG
CTGCTGTCCCTGTACGAGGATGACATCACCTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236068
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MITLGDVHNFADGLAVGAAFASSWKTGLATSLAVFCHELPHELGFDAALLHAGLSVRQALLLNALASL
TAFAGLYVALAVGVSESEAWILAVATGLFLYVALCDMLPAMLKVRDPRPWLLFLLHNVGLLGGWTVLL
LLSLYEDDITF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:

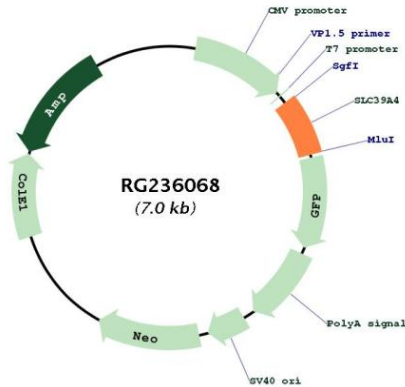


- ACCN: NM_001280557
- ORF Size: 447 bp
- OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
- OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
- Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- RefSeq: [NM_001280557.2](#)
- RefSeq Size: 697 bp
- RefSeq ORF: 450 bp
- Locus ID: 55630
- Cytogenetics: 8q24.3
- Protein Families: Transmembrane
- MW: 16.3 kDa

Gene Summary:

This gene encodes a member of the zinc/iron-regulated transporter-like protein (ZIP) family. The encoded protein localizes to cell membranes and is required for zinc uptake in the intestine. Mutations in this gene result in acrodermatitis enteropathica. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG236068